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Search Results - Record(s) 1 through 14 of 14 returned.

☐ 1. Document ID: US 20020103429 A1

L25: Entry 1 of 14 File: PGPB Aug 1, 2002

PGPUB-DOCUMENT-NUMBER: 20020103429
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020103429 A1

TITLE: Methods for physiological monitoring, training, exercise and regulation

PUBLICATION-DATE: August 1, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
deCharms, R. Christopher	Moss Beach	CA	US	

US-CL-CURRENT: 600/410

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw Desc | Image

☐ 2. Document ID: US 6549007 B1

L25: Entry 2 of 14 File: USPT Apr 15, 2003

US-PAT-NO: 6549007
DOCUMENT-IDENTIFIER: US 6549007 B1

TITLE: On-line NMR imaging of a solid or liquid object undergoing continuous translational motion

DATE-ISSUED: April 15, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hills; Brian Philip	Norwich			GB
Wright; Kevin Michael	Norwich			GB

US-CL-CURRENT: 324/306; 324/303, 324/318

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw Desc | Image

☐ 3. Document ID: US 6433550 B1

L25: Entry 3 of 14 File: USPT Aug 13, 2002

US-PAT-NO: 6433550
DOCUMENT-IDENTIFIER: US 6433550 B1

TITLE: MRI magnet with vibration compensation

DATE-ISSUED: August 13, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kinanen; Ilmari	Espoo			FI

US-CL-CURRENT: 324/320; 324/318

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw. Desc | Image

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☐ 4. Document ID: US 6323646 B1

L25: Entry 4 of 14 File: USPT Nov 27, 2001

US-PAT-NO: 6323646
DOCUMENT-IDENTIFIER: US 6323646 B1

TITLE: Method and apparatus for producing diffusion weighted MR images

DATE-ISSUED: November 27, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Zhou; Xiaohong	Houston	TX		
Maier; Joseph K.	Milwaukee	WI		
Huff; Steven J.	Hartland	WI		
Reynolds; Hammond Glenn	Milwaukee	WI		

US-CL-CURRENT: 324/309

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw. Desc | Image

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☐ 5. Document ID: US 6239599 B1

L25: Entry 5 of 14 File: USPT May 29, 2001

US-PAT-NO: 6239599
DOCUMENT-IDENTIFIER: US 6239599 B1

TITLE: Method and apparatus for identifying errors in magnetic resonance imaging examinations

DATE-ISSUED: May 29, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Zhou; Xiaohong	Houston	TX		
Maier; Joseph K.	Milwaukee	WI		
Huff; Steven J.	Hartland	WI		

US-CL-CURRENT: 324/309; 324/307

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw Desc | Image

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☐ 6. Document ID: US 6191582 B1

L25: Entry 6 of 14 File: USPT Feb 20, 2001

US-PAT-NO: 6191582
DOCUMENT-IDENTIFIER: US 6191582 B1

TITLE: Eddy current compensation

DATE-ISSUED: February 20, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Zur; Yuval	Haifa			IL

US-CL-CURRENT: 324/307; 324/309

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw Desc | Image

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☐ 7. Document ID: US 6066949 A

L25: Entry 7 of 14 File: USPT May 23, 2000

US-PAT-NO: 6066949
DOCUMENT-IDENTIFIER: US 6066949 A

TITLE: Gradient characterization using fourier-transform

DATE-ISSUED: May 23, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Alley; Marcus T.	Palo Alto	CA		
Pelc; Norbert J.	Los Altos	CA		

US-CL-CURRENT: 324/309; 324/307, 600/410

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw Desc | Image

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☐ 8. Document ID: US 5615677 A

L25: Entry 8 of 14 File: USPT Apr 1, 1997

US-PAT-NO: 5615677
DOCUMENT-IDENTIFIER: US 5615677 A
**** See image for Certificate of Correction ****

TITLE: MRI tracking of cyclical motion by fourier integration of velocity

DATE-ISSUED: April 1, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Pelc; Norbert J.	Los Altos	CA		
Zhu; Yudong	Stanford	CA		

US-CL-CURRENT: 600/410; 324/306, 324/309, 356/27, 356/28, 356/28.5, 600/419

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw Desc | Image

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☐ 9. Document ID: US 5318026 A

L25: Entry 9 of 14 File: USPT Jun 7, 1994

US-PAT-NO: 5318026
DOCUMENT-IDENTIFIER: US 5318026 A
**** See image for Certificate of Correction ****

TITLE: Method and apparatus for tracking of deformable regions by phase contrast MRI

DATE-ISSUED: June 7, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Pelc; Norbert J.	Los Altos	CA		

US-CL-CURRENT: 600/410; 324/309

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw Desc | Image

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☐ 10. Document ID: US 5289127 A

L25: Entry 10 of 14 File: USPT Feb 22, 1994

US-PAT-NO: 5289127
DOCUMENT-IDENTIFIER: US 5289127 A

TITLE: Correction of signal distortion in an NMR apparatus

DATE-ISSUED: February 22, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Doddrell; David M.	Westlake			AU
Crozier; Stuart	East Brisbane			AU
Gladwin; Michael T.	Upper Brookfield			AU

US-CL-CURRENT: 324/314; 324/309

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw. Desc | Image

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☐ 11. Document ID: US 5166615 A

L25: Entry 11 of 14 File: USPT Nov 24, 1992

US-PAT-NO: 5166615
DOCUMENT-IDENTIFIER: US 5166615 A
**** See image for Certificate of Correction ****

TITLE: System for detecting nuclear magnetic resonance signals from small samples

DATE-ISSUED: November 24, 1992

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sidles; John A.	Seattle	WA		

US-CL-CURRENT: 324/307; 250/251

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw. Desc | Image

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☐ 12. Document ID: US 5126672 A

L25: Entry 12 of 14 File: USPT Jun 30, 1992

US-PAT-NO: 5126672
DOCUMENT-IDENTIFIER: US 5126672 A

TITLE: Method for the measurement of the effects of eddy currents

DATE-ISSUED: June 30, 1992

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Le Roux; Patrick	Gif/Yvette			FR

US-CL-CURRENT: 324/309; 324/307

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw. Desc | Image

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☐ 13. Document ID: US 4910460 A

L25: Entry 13 of 14 File: USPT Mar 20, 1990

US-PAT-NO: 4910460
DOCUMENT-IDENTIFIER: US 4910460 A

TITLE: Method and apparatus for mapping eddy currents in magnetic resonance imaging

DATE-ISSUED: March 20, 1990

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sebok; David A.	Plainsboro	NJ		

US-CL-CURRENT: 324/307; 324/300

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw Desc | Image

☐ 14. Document ID: US 4855910 A

L25: Entry 14 of 14 File: USPT Aug 8, 1989

US-PAT-NO: 4855910
DOCUMENT-IDENTIFIER: US 4855910 A

TITLE: Time-clustered cardio-respiratory encoder and method for clustering cardio-respiratory signals

DATE-ISSUED: August 8, 1989

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bohning; Daryl E.	Birmingham	AL		

US-CL-CURRENT: 324/309; 600/416

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw Desc | Image

Generate Collection Print

Term	Documents
EDDY	49064
EDDIES	4580
EDDYS	193
(24 AND EDDY).USPT,PGPB,JPAB,EPAB,DWPI,TDBD.	14
(L24 AND EDDY).USPT,PGPB,JPAB,EPAB,DWPI,TDBD.	14

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Previous Page Next Page

WEST

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Search Results - Record(s) 1 through 18 of 18 returned.

☐ 1. Document ID: US 20030093129 A1

L13: Entry 1 of 18 File: PGPB May 15, 2003

PGPUB-DOCUMENT-NUMBER: 20030093129
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030093129 A1

TITLE: Closed loop brain machine interface

PUBLICATION-DATE: May 15, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Nicolelis, Miguel A.L.	Chapel Hill	NC	US	
Chapin, John K.	Atlantic Beach	NY	US	
Wessberg, Johan	Goteborg		SE	

US-CL-CURRENT: 607/45

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw Desc | Image

☐ 2. Document ID: US 20020127525 A1

L13: Entry 2 of 18 File: PGPB Sep 12, 2002

PGPUB-DOCUMENT-NUMBER: 20020127525
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020127525 A1

TITLE: Distributive processing simulation method and system for training healthcare teams

PUBLICATION-DATE: September 12, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Arington, Michael L.	Vaughn	WA	US	
Bailey, Bradford E.	Louisville	KY	US	
Clark, Bill B.	Castle Rock	CO	US	
Yuanming, Chen	Englewood	CO	US	
Gao, Qiang	Englewood	CO	US	
Wilson, Dave	Castle Rock	CO	US	
Younkes, William E.	Greenwood Village	CO	US	

US-CL-CURRENT: 434/262

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw Desc | Image

☐ 3. Document ID: US 20020123702 A1

L13: Entry 3 of 18 File: PGPB Sep 5, 2002

PGPUB-DOCUMENT-NUMBER: 20020123702
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020123702 A1

TITLE: Method & apparatus for mitigating renal failure using mechanical vibration including ultrasound and heat

PUBLICATION-DATE: September 5, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Cho, Young	Cherry Hill	NJ	US	

US-CL-CURRENT: 601/2

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw Desc | Image

☐ 4. Document ID: US 20020044590 A1

L13: Entry 4 of 18 File: PGPB Apr 18, 2002

PGPUB-DOCUMENT-NUMBER: 20020044590
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020044590 A1

TITLE: Method and system for conservative evaluation, validation and monitoring of thermal processing

PUBLICATION-DATE: April 18, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Simunovic, Josip	Raleigh	NC	US	
Swartzel, Kenneth R.	Raleigh	NC	US	
Adles, Eric	Raleigh	NC	US	

US-CL-CURRENT: 374/176; 374/141, 374/161, 374/166

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw Desc | Image

☐ 5. Document ID: US 20020010551 A1

L13: Entry 5 of 18 File: PGPB Jan 24, 2002

PGPUB-DOCUMENT-NUMBER: 20020010551
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020010551 A1

TITLE: System and method of bolus-chasing angiography with adaptive real-time computed tomography (CT)

PUBLICATION-DATE: January 24, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Wang, Ge	Iowa City	IA	US	
Vannier, Michael W.	Iowa City	IA	US	

US-CL-CURRENT: 702/19

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Draw Desc | Image | KWIC

☐ 6. Document ID: US 6535821 B2

L13: Entry 6 of 18 File: USPT Mar 18, 2003

US-PAT-NO: 6535821
DOCUMENT-IDENTIFIER: US 6535821 B2

TITLE: System and method of bolus-chasing angiography with adaptive real-time computed tomography (CT)

DATE-ISSUED: March 18, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wang; Ge	Iowa City	IA		
Vannier; Michael W.	Iowa City	IA		

US-CL-CURRENT: 702/19; 600/415, 702/150, 702/84

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Draw Desc | Image | KWIC

☐ 7. Document ID: US 6464496 B1

L13: Entry 7 of 18 File: USPT Oct 15, 2002

US-PAT-NO: 6464496
DOCUMENT-IDENTIFIER: US 6464496 B1

TITLE: Method and apparatus for determining and monitoring orthodontic treatment

DATE-ISSUED: October 15, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sachdeva; Rohit	Plano	TX		
Rubbert; Rudger	Berlin			DE
Jennings; Ron	Plano	TX		

US-CL-CURRENT: 433/24; 433/3

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Draw Desc | Image | KWIC

☐ 8. Document ID: US 6461298 B1

L13: Entry 8 of 18 File: USPT Oct 8, 2002

US-PAT-NO: 6461298
DOCUMENT-IDENTIFIER: US 6461298 B1

TITLE: Three-dimensional imaging system

DATE-ISSUED: October 8, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fenster; Aaron	London			CA
Dunne; Shane	London			CA
Larsen; Janpeter T.	London			CA

US-CL-CURRENT: 600/437; 128/916, 600/443

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Draw Desc | Image | KWIC

☐ 9. Document ID: US 6346940 B1

L13: Entry 9 of 18 File: USPT Feb 12, 2002

US-PAT-NO: 6346940
DOCUMENT-IDENTIFIER: US 6346940 B1
**** See image for Certificate of Correction ****

TITLE: Virtualized endoscope system

DATE-ISSUED: February 12, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fukunaga; Tomohisa	Tochigi-ken			JP

US-CL-CURRENT: 345/427; 345/420, 345/424, 345/629, 345/630, 382/103, 600/111

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Draw Desc | Image | KWIC

10. Document ID: US 6334847 B1

L13: Entry 10 of 18 File: USPT Jan 1, 2002

US-PAT-NO: 6334847
DOCUMENT-IDENTIFIER: US 6334847 B1

TITLE: Enhanced image processing for a three-dimensional imaging system

DATE-ISSUED: January 1, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fenster; Aaron	London			CA
Dunne; Shane	London			CA

US-CL-CURRENT: 600/443; 128/916

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw Desc | Image

11. Document ID: US 6175610 B1

L13: Entry 11 of 18 File: USPT Jan 16, 2001

US-PAT-NO: 6175610
DOCUMENT-IDENTIFIER: US 6175610 B1

TITLE: Medical technical system controlled by vision-detected operator activity

DATE-ISSUED: January 16, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Peter; Fritz	Spardorf			DE

US-CL-CURRENT: 378/8; 250/221, 345/166

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw Desc | Image

12. Document ID: US 6171239 B1

L13: Entry 12 of 18 File: USPT Jan 9, 2001

US-PAT-NO: 6171239
DOCUMENT-IDENTIFIER: US 6171239 B1

TITLE: Systems, methods, and devices for controlling external devices by signals derived directly from the nervous system

DATE-ISSUED: January 9, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Humphrey; Donald R.	Atlanta	GA		

US-CL-CURRENT: 600/372; 600/378, 600/544, 607/116

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw Desc | Image

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☐ 13. Document ID: US 6088472 A

L13: Entry 13 of 18 File: USPT Jul 11, 2000

US-PAT-NO: 6088472
DOCUMENT-IDENTIFIER: US 6088472 A

TITLE: Global models with parametric offsets for object recovery

DATE-ISSUED: July 11, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
O'Donnell; Thomas	Englewood	NJ		
Boult; Terrance E.	Bethlehem	PA		
Gupta; Alok	East Brunswick	NJ		

US-CL-CURRENT: 382/128; 382/293

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw Desc | Image

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☐ 14. Document ID: US 5964707 A

L13: Entry 14 of 18 File: USPT Oct 12, 1999

US-PAT-NO: 5964707
DOCUMENT-IDENTIFIER: US 5964707 A

TITLE: Three-dimensional imaging system

DATE-ISSUED: October 12, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fenster; Aaron	London			CA
Dunne; Shane	London			CA
Larsen; Janpeter T.	London			CA

US-CL-CURRENT: 600/443

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC
Draw Desc | Image

☐ 15. Document ID: US 5880976 A

L13: Entry 15 of 18 File: USPT Mar 9, 1999

US-PAT-NO: 5880976
DOCUMENT-IDENTIFIER: US 5880976 A

TITLE: Apparatus and method for facilitating the implantation of artificial components in joints

DATE-ISSUED: March 9, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
DiGioia III; Anthony M.	Pittsburgh	PA		
Simon; David A.	Boulder	CO		
Jaramaz; Branislav	Pittsburgh	PA		
Blackwell; Michael K.	Pittsburgh	PA		
Morgan; Frederick M.	Quincy	MA		
O'Toole; Robert V.	Brookline	MA		
Kanade; Takeo	Pittsburgh	PA		

US-CL-CURRENT: 703/7

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC
Draw Desc | Image

☐ 16. Document ID: US 5842473 A

L13: Entry 16 of 18 File: USPT Dec 1, 1998

US-PAT-NO: 5842473
DOCUMENT-IDENTIFIER: US 5842473 A
**** See image for Certificate of Correction ****

TITLE: Three-dimensional imaging system

DATE-ISSUED: December 1, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fenster; Aaron	London			CA
Dunne; Shane	London			CA
Larsen; Janpeter T.	London			CA

US-CL-CURRENT: 600/445; 128/916

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC
Draw Desc | Image

☐ 17. Document ID: US 5581490 A

L13: Entry 17 of 18 File: USPT Dec 3, 1996

US-PAT-NO: 5581490
DOCUMENT-IDENTIFIER: US 5581490 A

TITLE: Contact management model assessment system for contact tracking in the presence of model uncertainty and noise

DATE-ISSUED: December 3, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ferkinhoff; David J.	Middletown	RI		
Baylog; John G.	Tiverton	RI		
Gong; Kai F.	Pawtucket	RI		
Keay; Kathleen D.	Fairhaven	MA		
Hammel; Sherry E.	Little Compton	RI		

US-CL-CURRENT: 703/2; 702/181, 702/191

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw Desc | Image

☐ 18. Document ID: US 5454371 A

L13: Entry 18 of 18 File: USPT Oct 3, 1995

US-PAT-NO: 5454371
DOCUMENT-IDENTIFIER: US 5454371 A

TITLE: Method and system for constructing and displaying three-dimensional images

DATE-ISSUED: October 3, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fenster; Aaron	London			CA
Dunne; Shane	London			CA
Chan; Thomas K. C.	London			CA
Downey; Donal	London			CA

US-CL-CURRENT: 600/443; 128/916, 345/419

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw Desc | Image

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Term	Documents
MAGNETIC	1177446
MAGNETICS	10945
RESONANCE	231097
RESONANCES	13035
MRI	18746
MRIS	203
NMR	119280
NMRS	170
(12 AND (MRI OR (MAGNETIC ADJ RESONANCE) OR NMR)).USPT,PGPB,JPAB,EPAB,DWPI,TDBD.	18
(L12 AND ((MAGNETIC ADJ RESONANCE) OR MRI OR NMR)).USPT,PGPB,JPAB,EPAB,DWPI,TDBD.	18

Display Format: - Change Format

Previous Page Next Page

WEST

Generate Collection | Print

Search Results - Record(s) 1 through 4 of 4 returned.

☐ 1. Document ID: US 6150912 A

L3: Entry 1 of 4 File: USPT Nov 21, 2000

US-PAT-NO: 6150912
DOCUMENT-IDENTIFIER: US 6150912 A

TITLE: Open architecture superconducting magnet helium vessel structure

DATE-ISSUED: November 21, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Elgin, II; Stephen R.	Florence	SC		
Grut; Kenneth Edward	Florence	SC		
Lehmann; Gregory Alan	Florence	SC		
Sansbury; Michelle Guilmet	Florence	SC		
Scaturro, Jr.; John	Florence	SC		
Xu; Bu-Xin	Florence	SC		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
General Electric Company	Milwaukee	WI			02

APPL-NO: 09/ 441166 [PALM]
DATE FILED: November 15, 1999

INT-CL: [07] H01 F 5/00

US-CL-ISSUED: 335/299; 335/216, 505/892
US-CL-CURRENT: 335/299; 335/216, 505/892

FIELD-OF-SEARCH: 335/216, 335/299, 335/301, 335/302, 324/318-321, 505/892, 62/50.1

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
5721523	February 1998	Dorri et al.	335/216
5883558	March 1999	Laskaris et al.	335/216

ART-UNIT: 282

PRIMARY-EXAMINER: Donovan; Lincoln

ASSISTANT-EXAMINER: Nguyen; Tuyen T.

ATTY-AGENT-FIRM: Freedman; Irving M. Cabou; Christian G. Price; Phyllis Y.

ABSTRACT:

A magnet cartridge for an open architecture superconducting magnet including an iron ring sandwiched between two coil forms, and including radial and axial positioning and securing apparatus to position, secure and maintain the relative positions of the coils on the coil forms and the iron ring in the presence of the strong superconducting magnet field generated by superconducting operation of said magnet.

15 Claims, 3 Drawing figures

☐ 2. Document ID: US 5864273 A

L3: Entry 2 of 4 File: USPT Jan 26, 1999

US-PAT-NO: 5864273
DOCUMENT-IDENTIFIER: US 5864273 A

TITLE: Cryocooler vibration isolation and noise reduction in magnetic resonance imaging

DATE-ISSUED: January 26, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Dean; David E.	Florence	SC		
Ginfrida; Clifford J.	Florence	SC		
Mansell; Scott Thomas	Waterford	WI		
Nixon; Thomas M.	Florence	SC		
Purgill; Dewain A.	Waukesha	WI		
Radziun; Michael James	Waterford	WI		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
General Electric Company	Milwaukee	WI			02

APPL-NO: 08/ 814909 [PALM]
DATE FILED: March 12, 1997

INT-CL: [06] H01 F 1/00

US-CL-ISSUED: 335/216; 505/892, 62/51.1
US-CL-CURRENT: 335/216; 505/892, 62/51.1

FIELD-OF-SEARCH: 335/216, 335/299, 62/51.1, 62/51.2, 62/51.3, 62/297, 248/636.8, 505/892

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
5129232	July 1992	Minas et al.	62/51.1
5317879	June 1994	Goldberg et al.	62/51.1
5522226	June 1996	Mruzek	62/51.1
5613367	March 1997	Chen	62/47.1

FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
0359262	March 1990	EP	
0414443	February 1991	EP	
2272061	May 1994	GB	

ART-UNIT: 282

PRIMARY-EXAMINER: Donovan; Lincoln

ATTY-AGENT-FIRM: Freedman; Irving M. Cabou; Christian G. Price; Phyllis Y.

ABSTRACT:

Vibration and noise isolation for a magnetic resonance imager (MRI) superconducting magnet cryocooler includes a bellows between the cryocooler and its vacuum sleeve in the magnet, a mass suspended along the axis of, but at a distance from, the cryocooler, elastomeric blocks parallel to the axis, and braided copper wires connecting the vacuum sleeve and the heat shields of the MRI. Motion limiters and bellows flexures are provided for dynamic loads which might be encountered during transport of the magnet.

19 Claims, 3 Drawing figures

☐ 3. Document ID: US 6150912 A JP 2001212109 A EP 1102078 A2

L3: Entry 3 of 4 File: DWPI Nov 21, 2000

DERWENT-ACC-NO: 2001-089984
DERWENT-WEEK: 200150

TITLE: Open architecture superconducting magnet assembly for magnetic resonance imaging, has upper and lower superconducting magnet coils attached by forms to ferromagnetic ring, and which are housed in liquid cryogen vessels

INVENTOR: ELGIN, S R; GRUT, K E ; LEHMANN, G A ; SANSBURY, M G ; SCATURRO, J ; XU, B

PATENT-ASSIGNEE: GENERAL ELECTRIC CO (GENE)

PRIORITY-DATA: 1999US-0441166 (November 15, 1999)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
US 6150912 A	November 21, 2000		008	H01F005/00
JP 2001212109 A	August 7, 2001		022	A61B005/055
EP 1102078 A2	May 23, 2001	E	000	G01R033/3815

DESIGNATED-STATES: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI TR

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
US 6150912A	November 15, 1999	1999US-0441166	
JP2001212109A	November 14, 2000	2000JP-0346010	
EP 1102078A2	November 10, 2000	2000EP-0310015	

INT-CL (IPC): A61 B 5/055; G01 R 33/3815; G01 R 33/385; H01 F 5/00; H01 F 6/00; H01 F 6/04; H01 L 39/04

ABSTRACTED-PUB-NO: US 6150912A
BASIC-ABSTRACT:

NOVELTY - A ferromagnetic ring (40) is provided between upper and lower superconducting magnet coils (29,30). The coils are attached to the ring by coil forms. The coils, coil forms and ring are accommodated in upper and lower liquid cryogen vessels (32,33) which are accommodated in magnet cartridge sub-assemblies (100).

DETAILED DESCRIPTION - A positioning and securing apparatus has several radially extended fasteners spaced around the ferromagnetic ring, to secure coil forms to the ferromagnetic ring to form unitary surface. The coil forms has circumferentially extending tongue on circumference adjacent to ferromagnetic ring which mate with circumferential grooves on outer circumference and inner circumference of ring to axially position coils on ring, to resist the movement of coils when coil forms are secured to the ring.

USE - For magnetic resonance imaging (MRI).

ADVANTAGE - Maintains magnetic components in proper position accurately during ramping up, cooling to superconducting state and warm up to ambient after MRI operation is over and provides strength and rigidity during transportation and shifting within premises.

DESCRIPTION OF DRAWING(S) - The figure shows the sectional view of open architecture superconducting magnet assembly.

Superconducting magnet coils 29,30

Liquid cryogen vessels 32,33

Ferromagnetic ring 40

Sub-assemblies 100

ABSTRACTED-PUB-NO: US 6150912A
EQUIVALENT-ABSTRACTS:

CHOSEN-DRAWING: Dwg.1/3

DERWENT-CLASS: P31 S01 S03 S05 X12
EPI-CODES: S01-E02A8E; S03-E07A; S05-D02B1; X12-C01B; X12-C02A3; X12-C05A;

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw Desc | Clip Img | Image

4. Document ID: EP 864878 A1 JP 11016719 A US 5864273 A

L3: Entry 4 of 4 File: DWPI Sep 16, 1998

DERWENT-ACC-NO: 1998-469402
DERWENT-WEEK: 199914

TITLE: MRI superconducting magnet assembly - has bellows between cryocooler and vacuum sleeve in magnet with mass suspended along axis of, but at distance from cryocooler and elastomeric blocks being parallel to axis, braided copper wires connect vacuum sleeve and heat shields of MRI

INVENTOR: DEAN, D E; GINFRIDA, C J ; MANSELL, S T ; NIXON, T M ; PURGILL, D A ; RADZIUN, M J

PATENT-ASSIGNEE: GENERAL ELECTRIC CO (GENE)

PRIORITY-DATA: 1997US-0814909 (March 12, 1997)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
EP 864878 A1	September 16, 1998	E	009	G01R033/3815
JP 11016719 A	January 22, 1999		029	H01F006/00
US 5864273 A	January 26, 1999		000	H01F001/00

DESIGNATED-STATES: AL AT BE CH DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SI

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
EP 864878A1	March 11, 1998	1998EP-0301776	
JP 11016719A	March 12, 1998	1998JP-0061434	
US 5864273A	March 12, 1997	1997US-0814909	

INT-CL (IPC): A61 B 5/055; F17 C 13/00; G01 R 33/3815; H01 F 1/00; H01 F 6/00; H01 F 6/04

ABSTRACTED-PUB-NO: EP 864878A
BASIC-ABSTRACT:

The assembly comprises a mechanical cryocooler (12) mounted on a superconducting magnet in a heat exchange relationship, and an isolation assembly to minimise vibration effects of the cryocooler. The isolation assembly includes an flexible isolator located between the cryocooler and the superconducting magnet. A mass is attached along the axis of the cryocooler at a distance from the cryocooler. The MIR magnet assembly of several support members extend parallel to the axis to support the mass.

The MRI magnet assembly of the support members are rods with dimensions selected to lower the stiffness of the vibration isolator in directions other than the axial direction while raising the stiffness in the axial direction. The MIR magnet assembly of the superconducting magnet includes an enclosing vessel and the flexible isolator includes bellows located between the cryocooler and the enclosing vessel. The MRI magnet assembly of the flexible isolator includes one elastomeric member

between the cryocooler and the superconducting magnet.

ADVANTAGE - Minimises noise and vibration effects of cryocooler in MRI superconducting magnet.

ABSTRACTED-PUB-NO: US 5864273A
EQUIVALENT-ABSTRACTS:

The assembly comprises a mechanical cryocooler (12) mounted on a superconducting magnet in a heat exchange relationship, and an isolation assembly to minimise vibration effects of the cryocooler. The isolation assembly includes an flexible isolator located between the cryocooler and the superconducting magnet. A mass is attached along the axis of the cryocooler at a distance from the cryocooler. The MIR magnet assembly of several support members extend parallel to the axis to support the mass.

The MRI magnet assembly of the support members are rods with dimensions selected to lower the stiffness of the vibration isolator in directions other than the axial direction while raising the stiffness in the axial direction. The MIR magnet assembly of the superconducting magnet includes an enclosing vessel and the flexible isolator includes bellows located between the cryocooler and the enclosing vessel. The MRI magnet assembly of the flexible isolator includes one elastomeric member between the cryocooler and the superconducting magnet.

ADVANTAGE - Minimises noise and vibration effects of cryocooler in MRI superconducting magnet.

CHOSEN-DRAWING: Dwg.1/3

DERWENT-CLASS: P31 Q69 S01 S03 S05 X12
EPI-CODES: S01-E02A2; S01-E02A8E; S01-H01A1; S01-J02; S01-J09; S03-E07A; S05-D02B1; X12-C05A; X12-C09;

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(L24 AND EDDY).USPT,PGPB,JPAB,EPAB,DWPI,TDBD.	14

Database: US Patents Full Text Database; US Pre-Grant Publication Full-Text Database; JPO Abstracts Database; EPO Abstracts Database; Derwent World Patents Index; IBM Technical Disclosure Bulletins

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L25	l24 and eddy	14	L25
L24	L23 and l19	39	L24
L23	L22 or l21	11967	L23
L22	((600/400 |600/401 |600/402 |600/403 |600/404 |600/405 |600/406 |600/407 |600/408 |600/409 |600/410 |600/411 |600/412 |600/413 |600/414 |600/415 |600/416 |600/417 |600/418 |600/419 |600/420 |600/421 |600/422 |600/423 |600/424 |600/425 |600/426 |600/427 |600/428 |600/429 |600/430 |600/431 |600/432 |600/433 |600/434	6180	L22

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L21	((324/300 |324/301 |324/302 |324/303 |324/304 |324/305 |324/306 |324/307 |324/308 |324/309 |324/310 |324/311 |324/312 |324/313 |324/314 |324/315 |324/316 |324/317 |324/318 |324/319 |324/320 |324/321 |324/322)!.CCLS.)	6740	L21
L20	((324/300-322.ccls.) or (600/400-434.ccls.))	0	L20
L19	L18 and (disturb$7 or interfer$8 or inhomogeneit$6 or instab$7 or unstab$7)	130	L19
L18	L17 and (transfer$6 or function$3)	263	L18
L17	L16 and ((simulat$7 or model$6) with (motion or moving or moved or move or movement or vibrat$8 or movable or oscillat$6 or damp$6 or eddy))	276	L17
L16	L15 and (simulat$7 or model$6)	1078	L16
L15	L14 and ((magnetic adj resonance) or MRI or NMR)	1820	L15
L14	((analy$6) with (motion or moving or moved or move or movement or vibrat$8 or movable or oscillat$6 or damp$6 or eddy))	49429	L14
L13	L12 and ((magnetic adj resonance) or MRI or NMR)	18	L13
L12	L11 and ((simulat$7 or model$6) with (motion or moving or moved or move or movement or vibrat$8 or movable or oscillat$6 or damp$6) with (system or apparatus or device) with (component or module))	910	L12
L11	L10 and (component or module)	225931	L11
L10	L9 and (motion or moving or moved or move or movement or vibrat$8 or movable or oscillat$6 or damp$6)	333554	L10
L9	L8 and (system or apparatus or device)	624905	L9
L8	(simulat$7 or model$6)	750239	L8
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L7	L6 and (simulat$7)	33	L7
L6	L4 and (simulat$7 or model$6)	63	L6
L5	L4 and (simulat47 or model$6)	40	L5
L4	fetzner	166	L4
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L3	(5864273| 6150912)![pn]	4	L3
L2	L1 and (lehmann.in.)	1	L2
L1	(havens.in.)	903	L1

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